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100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MINUTES
October 12, 2006

APPROVAL: _____ Date 9 Nov 06
Kevin D. Bazzell, DOE (A3-04)
River Corridor Project Manager

APPROVAL: _____ Date 11/9/2006
Briant Charboneau, DOE (A6-33)
Groundwater Project Manager

APPROVAL: _____ Date 11/9/2006
John Price or Rick Bond, Ecology (H0-57)
Environmental Restoration Manager

APPROVAL: _____ Date 11-9-2006
Larry Gadbois, EPA (B1-46)
100 Aggregate Area Unit Manager
Rod Lobos For

APPROVAL: _____ Date 11-9-2006
Alicia Boyd, EPA (B1-46)
300 Aggregate Area Unit Manager

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
October 10/12, 2006

NAME	E-MAIL ADDRESS	MSIN	COMP	SIGNATURE
Isom, Debbi	Original +1 copy	H6-08	ADREC	N/A
Bazzell, Kevin D	Kevin_D_Bazzell@rl.gov	A3-04	DOE	
Chalk, Steven E	Steven_E_Chalk@rl.gov	A7-75	DOE	
Charboneau, Briant L	Briant_L_Charboneau@rl.gov	A6-33	DOE	
Clark, Clifford E	Clifford_E_Cliff_Clark@rl.gov	A5-15	DOE	
Guercia, Rudolph F	Rudolph_F_Rudy_Guercia@rl.gov	A3-04	DOE	
Hildebrand, R Doug	R_D_Doug_Hildebrand@rl.gov	A6-38	DOE	
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Faulk, Dennis A	FAULK.DENNIS@EPA.GOV	B1-46	EPA	
Gadbois, Larry E	GADBOIS.LARRY@EPA.GOV	B1-46	EPA	
Lobos, Rod	LOBOS.ROD@EPA.GOV	B1-46	EPA	

100 & 300 AREA UNIT MANAGER MEETING MINUTES

Groundwater, Source Operable Units, Facility, and End States and Final Closure

October 12, 2006

Washington Closure Hanford Building, 2620 Fermi Drive, Richland, Washington

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) - The next meeting will be held November 9, 2006 at Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room A110.
- Quorum - A quorum of Tri-Party project managers was present to conduct the business of the Unit Managers Meeting.
- Attendees/Delegations - See Attachment A for the list of attendees. Attachment B documents the delegation of the U.S. Department of Energy River Corridor Project Manager (Kevin Bazzell) to Rudy Guercia; no other delegations were received.
- Approval of Minutes - The approval and signing of the August 17, 2006 and September 14, 2006 meeting minutes were approved by the U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology). Approval by the U.S. Department of Energy, Richland Operations Office (RL) River Corridor Project Manager was partially completed; approval by the RL Groundwater Project Manger is pending.
- Action Item Status - Status of action items was not covered (Attachment C).
- Agenda: Attachment D is an agenda for the meeting.

EXECUTIVE SESSION (Tri-Parties Only)

- 100-H Pluto Crib (116-H-4)

  Issue: RL (Kent Westover) proposed to closeout this waste site with no further sampling as the site was previously removed, as well as the information presented in the Remaining Site Verification Package submitted several months ago. Additionally, RL provided Ecology (John Price) with additional information for their consideration (Attachment 1). Ecology disagrees with not sampling based on information obtained from a technical baseline report concerning the curies of material disposed. Additionally, RL shall consider sending a RL signed Waste Information Database System (WIDS) reclassification form to Ecology.

  Agreement: None.

  Action: Ecology (John Price) will send RL (Kent Westover) an email after looking at the information in Attachment 1, and will provide feedback.

- Differing Approaches on Sampling Instructions at Ecology sites (April 10, 2006 Remaining Sites)

  Issue: Ecology (John Price) stated there is no formal process for resolving sampling approaches where Ecology and RL differ, and multiple attempts at a technical level are exchanged without resolution. Ecology discussed a variety of potential options.

  Agreement: None.

Action: RL (Kent Westover) shall propose a process for resolving sampling approaches where Ecology and RL differ, and multiple attempts at a technical level are exchanged without resolution. The process needs to document the differences, and be a graded approach.

100 AREA GROUNDWATER

Attachments 2, 3, and 4 provide a status or information for both September and October 2006. No issues were identified, and no agreements were documented.

Action 1: RL (Briant Charboneau) will respond to Ecology's (Alisa Huckaby) email request on data and analysis request regarding the 100-HR-3 system.

Action 2: Ecology (John Price) will respond to RL's request to submit an annual report for the ISRM system versus a quarterly report. However, monthly data will still be sent to Ecology.

Action 3: RL (Briant Charboneau) will send Ecology the schedule for the EM-22 Treatability Test Report.

Action 4: RL (Briant Charboneau) will send Ecology the plans/actions for the 182-D Reservoir.

300 AREA GROUNDWATER

Attachment 4 provides a status or information. No issues were identified, no agreements were documented, and no action items were documented.

GROUNDWATER/SOURCE OPERABLE UNIT INTEGRATION

No issues were identified, no agreements were documented, and no action items were documented.

100 AREA FIELD REMEDIATION CLOSURE

Attachments 5, 6, 7, 8 and 9 provide a status or information for various projects in the 100 Area field remediation project. No issues were identified.

Agreement: Attachment 10 documents an agreement from EPA granting an offsite determination for recycling batteries from the 100-F area to the Hanford Central Consolidated Recycling Center (CCRC).

Action 1: RL (Jamie Zeisloft) and Ecology shall talk about the liquid removal from the 100-D-56 pipe.

Action 2: Ecology (John Price) shall review the RL re-vegetation proposal (Attachment 9) at 1301-N (116-N-1) and a meeting may be necessary prior to receiving approval. Approval shall be documented in a future Unit Manager Meeting.

Action 3: Ecology (John Price) will review the draft 100-D-56 treatment plan provided on Oct. 14, 2006.

300 AREA FIELD REMEDIATION CLOSURE

Attachments 11 and 12 provide a status or information. No issues were identified, and no agreements were documented.

Action: RL (Chris Smith) shall provide EPA with the contamination control measures to move the MO-905 trailer within the onsite area; Attachment 12 is a map showing a proposed location. EPA concurrence is being requested as the trailer must be re-located to install a new trailer in the same location. The trailer will be demolished by the D4 Project in the near future.

END STATES AND FINAL CLOSURE PROJECT

Attachment 13 and 14 provide a status or information. No issues were identified, no agreements were documented, and no actions were documented.

DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)

No issues were identified, and no actions were documented.

Agreement: Attachment 15 documents an agreement from Ecology that various 100-N trailers that can not be shown to be free of radioactive contamination may be disposed of at the Hanford Environmental Restoration Disposal Facility (ERDF).

INTERIM SAFE STORAGE (ISS)

No issues were identified, and no actions were documented.

Agreement 1: Attachment 16 documents an agreement from Ecology to discontinue tracking water levels in the fission product trap, and C elevator pit at the 100-N reactor.

Agreement 2: Attachment 17 documents an agreement from Ecology to leave the pressurizer tank system and penthouse structure in the safe storage enclosure at the 105-N/109-N reactor.

SPECIAL TOPICS

Attachment 18 provides a summary of the annual institutional control assessment performed in March and April 2006 for the 100 and 300 Areas. No issues were identified, no agreements were documented, and no actions were documented.

Attachment A

Borghese, Jane V	Jane_V_Borghese@rl.gov	E6-35	FH	
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Piippo, Rob	Robert_E_Piippo@rl.gov	H8-12	FH	
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JOHN MORSE	JOHN_G_MORSE@RL.GOV	A6-11	DOE-RL	
Steve Killoy	Steve.Killoy@wch-rcc.com		Bechtel	
NICK CLAPPER	NICKOLAI.CCLAPPER@WCH-RCC	X3-16	WCH	Nick Clapper
Steven Cimon	scimon@oregontrail.net		ODOE	

Attachment B

Donnelly, Jack W

From: Machado, Kathryn L
Sent: Thursday, October 12, 2006 8:39 AM
To: Donnelly, Jack W
Subject: FW: UMM on Thursday October 12

From: Bazzell, Kevin D [mailto:Kevin_D_Bazzell@RL.gov]
Sent: Thursday, October 12, 2006 8:30 AM
To: Bazzell, Kevin D; Price, John (ECY); Charboneau, Briant L; Romine, Larry D; Boyd, Alicia
Cc: Machado, Kathryn L; Gadbois, Larry; Cameron, Craig; Faulk, Dennis; Bond, Rick; Cusack, Laura J; Ollero, Jennifer F; DeLozier, Mary P (Fran); Goswami, Dibakar; Rochette, Beth; Borghese, Jane V; Clark, Clifford E (Cliff); Skinnarland, E R (Ron); Davis, Greta P; Vanni, Jeanne; Huckaby, Alisa D; Bauer, Roy G; Feist, Ella T; Carlson, Richard A; Guercia, Rudolph F (Rudy); Robertson, Owen Jr; Sands, John P; Smith, Douglas C (Chris); Westover, Kent R; Zeisloft, Jamie
Subject: UMM on Thursday October 12

I will not be available to attend the October 12th 100/300 Area UMM. In accordance with the allowances of TPA Action Plan, Section 4.1, I delegate my River Corridor Closure Project (RCCP) authority and responsibilities to Rudy Guercia.

Thanks,

Kevin

Attachment C

100/300 Area UMM
Action List
Attachment 4 C

	LVL	Action No.	Co.	Actionee	Project	Action Description	Status
0	0	100-003	RL	K. Bazzell	Field Remediation Closure	EPA and Ecology request DOE prepare a schedule for cleanup of the 200-CW-3 waste sites listed in the 100 Area Remaining Site Record of Decision.	Open: 7/13/06; Action:
0	0	100-004	WC	L. Dittmer	Sample Design and Cleanup Verification	Present an errata sheet to provide consistent tritium cleanup levels between the 100 Area Burial Ground SAP and the 100 Area SAP.	Open: 7/13/06; Action:
0	0	100-005	RL	K. Bazzell	General RCCC	EPA and Ecology request a meeting with the DOE person who can approve/disapprove language in the 100 Area Remedial Design Report. (Action associated with a proposed revision to the RDR to include descriptive language on ecorisk screening.)	Open: 7/13/06; Action:
0	0	100-005B	EPA	L. Gadbois	General RCCC	Revise the 100 Area RDR to include more specific language on the methodology and process for conducting ecological risk screening during closeout process.	Open: 9/14/06; Action:
0	0	100-006	RL	J. Zeisloft	100-K Field Remediation	RL to provide EPA and Ecology a copy of the NorthWind Characterization Report for 118-K-1.	Open: 7/13/06; Action: Report in revision review
X	0	100-007	RL	J. Zeisloft	100-K Field Remediation	RL provide EPA and Ecology the status of the AMEC Report on 118-K-1.	Open: 7/13/06; Closed: 8/10/06 Action did not occur
0	0	100-008	RL	K. Bazzell	Field Remediation	Provide WCH direction to evaluate other, existing, options for handling bottles containing liquids that are unearthed during remedial actions. Evaluate what is being done at other sites (Brookhaven; Sandia; DOE Lessons Learned website); evaluate how HAZMAT response teams triage unknown bottles.	Open: 9/14/06; Action:

100/300 Area UMM
Action List
Attachment 4c

	LVL	Action No.	Co.	Actionee	Project	Action Description	Status
X	0	100-009	RL	R. Guercia	100-K D4	Send a copy of a building completion report (a quarterly report prepared to satisfy the DOE Order to take a facility "off the books.") as an alternate format of retrievable documentation.	Open: 9/14/06; Action: Complete 9/15/06
0	0	300-002	PN	B. Peterson M. Hartman	300-FF-5 Groundwater	Invite Jacqui Shea (Ecology), Alica Huckaby (Ecology), Alicia Boyd (EPA) to the September 300 Area aquifer tube sampling event.	Open: 7/13/06; Action:

Attachment D

100/300 Area Unit Manager Meeting
October 12, 2006
Washington Closure Hanford Building
Room [redacted] A110
1:00-4:30 p.m.

1:00 – 2:00 p.m. **Executive Session:**

- Pluto Crib (John Price)

2:10 p.m. – 2:30 p.m. **Administrative:**

- Approval and signing of the meeting minutes (August and September)
- Open Action Items (Attached)
- New Project Actions/Commitments/Agreements
  (Submittals of items to the Administrative Record)

2:30 – 4: 30 p.m. **Open Session: Project Updates:**

- 100/300 Area Groundwater
- 100/300 Area Field Remediation and Closure
  - 100-B/C Field Remediation (Dean Strom)
    - Path forward on disposing of old cylinders
  - 100-D Field Remediation (Jon Fancher)
    - Project Update
    - Soil Treatment Plan
  - 100-N Field Remediation (Jack Donnelly)
    - 1301-N TSD Fencing (impact from D4)
    - 1301-N TSD Revegetation
- End States and Final Closure
- D4
- ISS
- Special Topics
  - Summary of WCH Institutional Controls reviews (Jack Donnelly)

Attachment 1

CVP	Waste Site	Crib Dimensions	Years of Operation	Remediation Date	Waste Stream	Estimated Hazard Classification Inventory (Cramer 1987)	Waste Site COCs	Excavation Depth	Hexavalent Chromium Result	Maxiumum Dose from RESRAD Modeling
CVP-99-00013	116-B-3	3- x 3- x 3-m (10- x 10- x 10-ft)	1951-1952	Feb-March 1999	Cooling water waste from ruptured fuel elements	4,000 L of liquid / 0.004 kg of $Na_2Cr_2O_7$	Cs-137, Sr-90, U-233/234, Cr+6	4.6 m (15 ft)	Below detection limit	0.158 mrem/yr
CVP-2000-00013	116-D-2	3- x 3- x 3-m (10- x 10- x 10-ft)	1950-1956	Nov-99	Cooling water waste from ruptured fuel elements	4,000 L of liquid / 0.004 kg of $Na_2Cr_2O_7$	Am-241, Co-60, Ce-137, Eu-152, Eu-154, Pu-238, Pu-239/240, Sr-90, U-233/234, U-238, Cr+6	4.6 m (15 ft)	Below detection limit	1.6 mrem/yr
CVP-2000-00015	116-DR-4	Vertical, 20-cm (8-in) perforated feed pipe (emptied into gravel filled excavation)	1950-1956	Nov-99	Cooling water waste from ruptured fuel elements, may have also received 4,000 L of boron solution	4,000 L of liquid / 0.004 kg of $Na_2Cr_2O_7$	Cs-137, Sr-90, Co-60, Eu-152, Cr+6	4.6 m (15 ft)	Below detection limit	1.10 mrem/yr
CVP-2001-00006[a]	116-F-4	1.83- x 1.83- x 3-m (6- x 6- x 10-ft)[b]	1950-1952	Sept-Nov 1993	Cooling water waste from ruptured fuel elements	4,000 L of liquid / 0.004 kg of $Na_2Cr_2O_7$	Am-241, Co-60, Ce-137, Eu-152, Eu-154, Pu-239/240, Sr-90, U-233/234, U-238	5.5 (18 ft)	Total chromium and sodium were used as surrogates - both were below background levels	1.90 mrem/yr (site); 0.93 mrem/yr (overburden)
	116-H-4	3- x 3- x 3-m (10- x 10- x 10-ft)[c]	1950-1952	NA	Cooling water waste from ruptured fuel elements	1,000 L of liquid / 1,000 kg of $Na_2Cr_2O_7$[d]	Am-241, Co-60, Ce-137, Eu-152, Eu-154, Pu-238, Pu-239/240, Sr-90, U-233/234, U-238, Cr+6[e]	7.3 m (24 ft)[f]	NA	NA

[a] 116-F-4 was excavated in 1993 during the 100 Area Excavation Treatability Study (DOE/RL 94-16). The CVP documents that the remediation and sampling results meet the RAOs as specified in the ROD and RDR/RAWP.

[b] Crib consisted of a 0.61 m (2ft) riser attached to a bottomless 208 L (55 gal) drum which sat upon a cobble drain field.

[c] Cramer 1987 reports shallower dimensions of 1.2 m (4 ft) x 1.2 m (4 ft) x 0.61 m (2 ft)

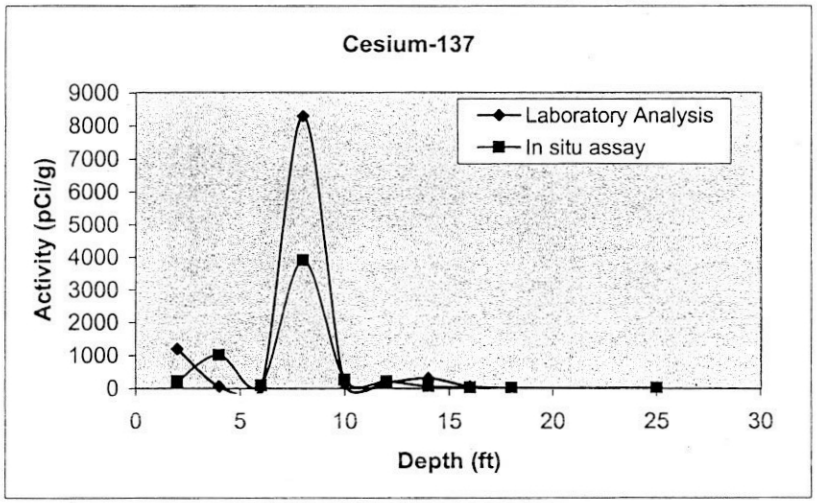
[d] Amount of sodium dichromate reported appears to be erroneously high and is believed to be a calculation error.

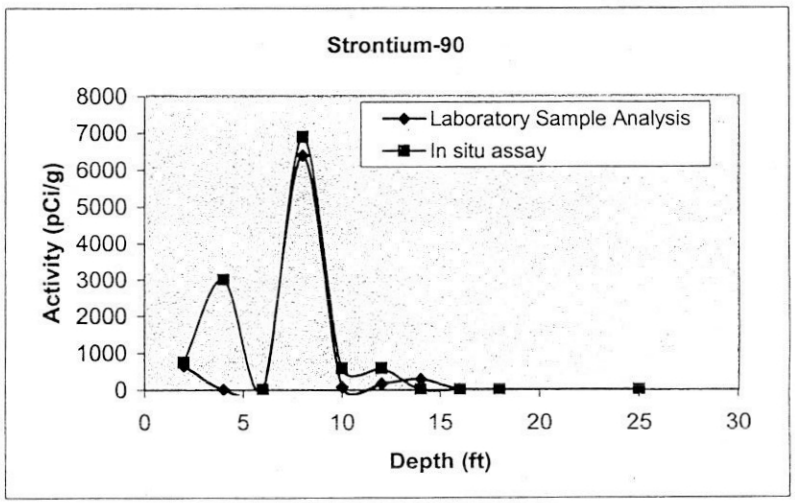
[e] COCs derived from a cummulative list of reported COCs for other 100 Area pluto cribs.

[f] Exhumed in 1960 during the installation of the 117-H Filter Building. The filter building was 9.6 m (31.5 ft) below grade. The construction excavation removed approximately 4.2 m (13.8 ft) of soil underlying the 116-H-4 pluto crib given a 1:1 layback and a pluto crib depth of 3 m (10 ft).

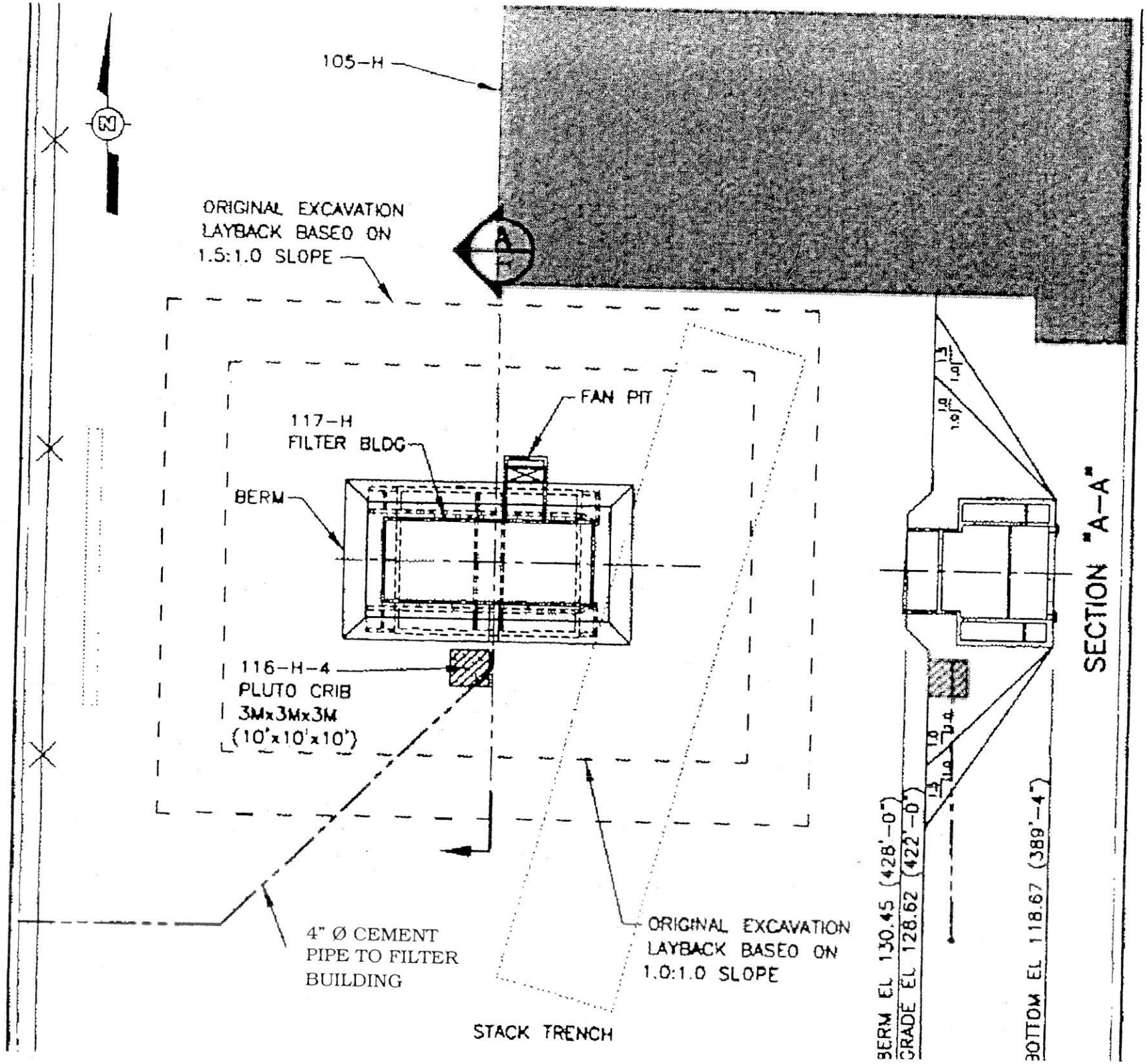
Maximum Result for Laboratory Sample Analysis				
	Depth (bgs)	Depth (bgs)	Cs-137	Sr-90
Lift	ft	m	pCi/g	
1	2	0.61	1200	650
2	4	1.2	54	5.6
3	6	1.8	21	1.7
4	8	2.4	8,300	6,400
5	10	3.0	134	77
6	12	3.7	180	170
7	14	4.3	310	290
8	16	4.9	54	18
9	18	5.5	1.8	0.77
Test pit	25	7.6	ND	ND

Maximum Result for In Situ Assay				
	Depth (bgs)	Depth (bgs)	Cs-137	Sr-90
Lift	ft	m	pCi/g	
1	2	0.61	200	740
2	4	1.2	1,000	3,000
3	6	1.8	73	< 30
4	8	2.4	3,900	6,900
5	10	3.0	250	570
6	12	3.7	200	570
7	14	4.3	62	<80
8	16	4.9	18	<80
9	18	5.5	0.3	<10
Test pit	25	7.6	< 0.2	< 10





* All data and results are presented and discussed in DOE/RL-96-14 (DOE-RL 1996)
** The maximum peak occurs in the cobble drain field


105-H
N
ORIGINAL EXCAVATION
LAYBACK BASED ON
1.5:1.0 SLOPE
FAN PIT
117-H
FILTER BLDG
BERM
116-H-4
PLUTO CRIB
3Mx3Mx3M
(10'x10'x10')
4" Ø CEMENT
PIPE TO FILTER
BUILDING
ORIGINAL EXCAVATION
LAYBACK BASED ON
1.0:1.0 SLOPE
STACK TRENCH
SECTION "A-A"
BERM EL 130.45 (428'-0")
GRADE EL 128.62 (422'-0")
BOTTOM EL 118.67 (389'-4")

Attachment 2

100 UMM
Groundwater Operable Unit Status
September 14, 2006

100-NR-2 Groundwater OU - Russ Fabre

- Ecological Impact Assessment

  Draft A of this report is under public review.

- Apatite Treatability Testing Status

  Preliminary results from the first field scale pilot test indicated that more calcium occurred in the test zone than was added, which was expected based on bench-scale testing results. To better utilize the existing Ca and reduce the amount of Sr-90 liberated, a reformulated mixture will be used during the second test. This mixture has a reduced Ca content and replaces the ammonium nitrate with diammonium phosphate. An additional eight (8) monitoring points will be installed at well N-137 during the week of September 18, 2006. The second test is scheduled to begin October 3, 2006. The injection systems have been constructed and tested.

100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period of July24-September 1, 2006:
    - System operated normally.
    - Total average flow through the system was approximately 265 gpm.
    - Average influent hexavalent chromium concentration was 0.045 mg/L.
  - KR-4 Expansion
    - Ordered three additional IX treatment skids, larger treatment building, and two transfer buildings. Grubbing is planned to start the week of September 25, 2006 or sooner.
  - Other Drilling
    - RL directed FH to drill three monitoring wells at 100-K area. Two wells will replace KE facility monitoring wells scheduled for decommissioning and one well will be installed up gradient of 199-K-126. (No change)

- KW Groundwater Remediation
  - Drilling is in progress for extraction (3) and injection (1) wells.
  - Treatment skid has been delivered to the Hanford Site.
  - Poured the concrete slab for the treatment building.
  - EPA approved the redlined-strikeout version of the Decisional Draft on the KW supplement to the 100-KR-4 RDR/RAWP.

K-Basins Monitoring-Robert Peterson

- Leak Detection Monitoring:
  - Tritium concentrations near KE fuel storage basin are consistent with previous trends and show no conclusive evidence for shielding water loss to the ground. However, the most recent result from 199-K-27 is higher that results for the previous year, and

exceeds the drinking water standard again. This variability may be related to high water table conditions this summer.
  - Tritium concentrations near KW fuel storage basin are very low and less than the drinking water standard, with no evidence for shielding water loss to the ground.
  - Tritium at 199-K-32A, located midway between KE basin and the river, shows that the plume created by the 1993 leak from KE basin has now nearly completely passed the well. Concentrations are returning to local background levels (3,000 to 5,000 pCi/L) following a peak of ~80,000 while the plume passed the well. For comparison, concentrations near KE basin (199-K-27) during the leak were as high as 628,000 pCi/L one year after the leak occurred.
- Monitoring Well Network:
  - Monthly monitoring continues at three wells close to the KE Basin, 199-K-27, 199-K-29, and 199-K-109A. Other wells are sampled quarterly.
- Reporting:
  - The quarterly K-Basins report for January, February, and March 2006 has been released and distributed as a .pdf file on August 21, 2006 (PNNL-16001).

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period July 22-September 1, 2006:
    - Total average flow through the system was approximately 209 gpm. D transfer was down from August 4-7, 2007 due to a blown fuse.
    - Average influent hexavalent chromium concentration for H Area was approximately 0.013 mg/L
    - Average influent hexavalent chromium concentration for D Area was approximately 0.030 mg/L.
- Cleanup of chromium in the vicinity of 100-H reactor is progressing well (See Attachments 1). Future meetings with Agencies need to be arranged to discuss O&M options for the reactor area. Ecology is expecting to see Action Items for the "Horn" in the 5-year ROD review.

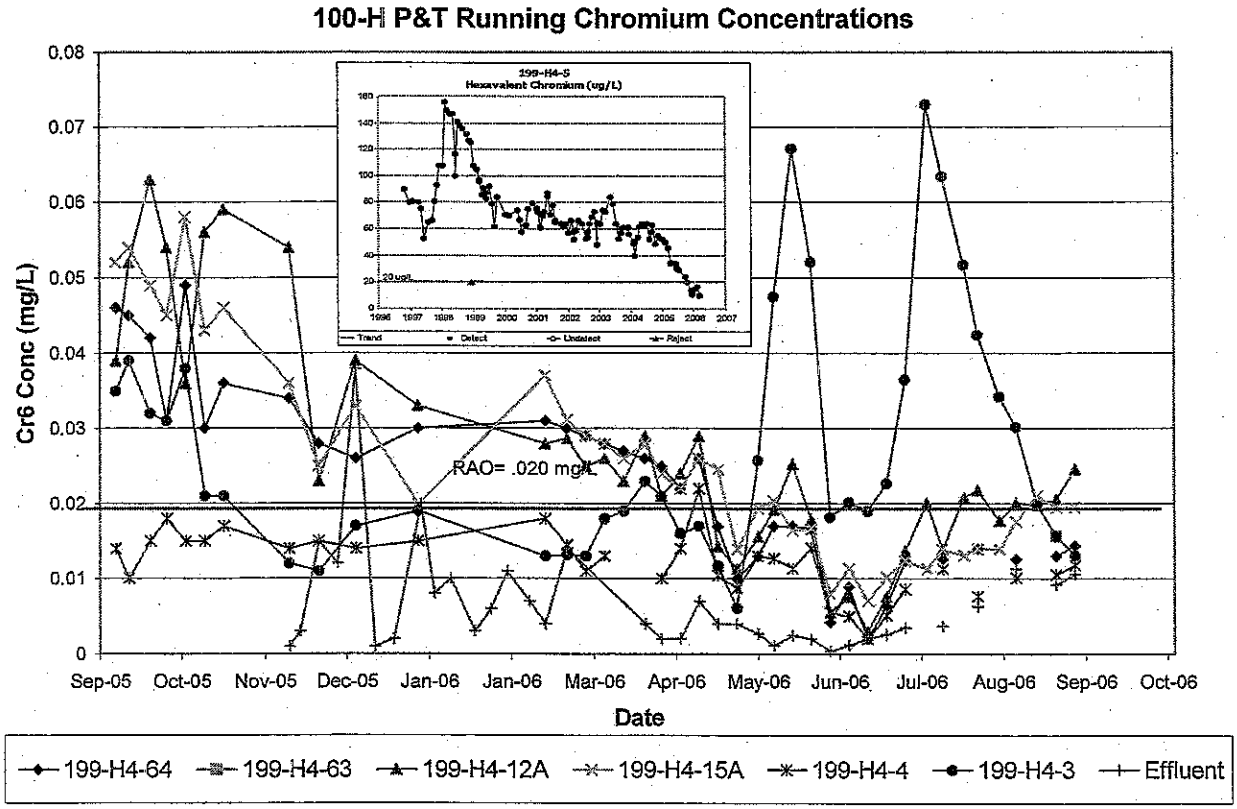
- DR-5 Treatment Status
  - For the period July 24-September 1, 2006:
    - System operated normally except D5-20. This extraction well has been down since July 29, 2006 due to communication problems.
    - Total average flow was approximately 42 gpm.
    - The average influent hexavalent chromium concentration was 0.731 mg/L.

- Summary of ISRM Status
  - Collected and analyzed samples from ISRM barrier wells August, 2006. When compared to samples taken one year earlier, the hexavalent chromium concentrations a taken August 2006 are generally lower. The overall decrease in concentrations may be caused by the higher than usual river stage experienced this year.
  - **RL request Ecology's approval to reduce quarterly reports to annual reports for the ISRM. The requirement in the RDR/RAWP for quarterly reports was intended to help evaluate ISRM during implementation.** Data is accessible via HEIS.

- EM-22 Technology Developments
  - Statements of Work are being finalized to support Requests for Proposals for the electrocoagulation and iron injection projects. Treatability test plans will be submitted for approval by the regulatory agencies.

  - A joint proposal by PNNL and FH was approved to refine the source of the ISRM plume through groundwater sampling, and to investigate the geochemistry of chromium in the vadose zone using samples obtained during drilling.

Attachment 1 – 100-H Chromium Trend Plots (Draft)



Attachment 3

(3)

100 UMM
Groundwater Operable Unit Status
October 12, 2006

100-NR-2 Groundwater OU - Russ Fabre

- Apatite Treatability Testing Status

  Ringold formation SR-90 sample results from the first pilot injection continue to trend down. Sample results from the Hanford formation are unavailable due to the low river stage. The second pilot injection was completed on September 28th at an injection rate of 40 gpm. Field parameters indicate good distribution of the solutions in the Ringold formation. Sample results from this second test should be available October 17th.

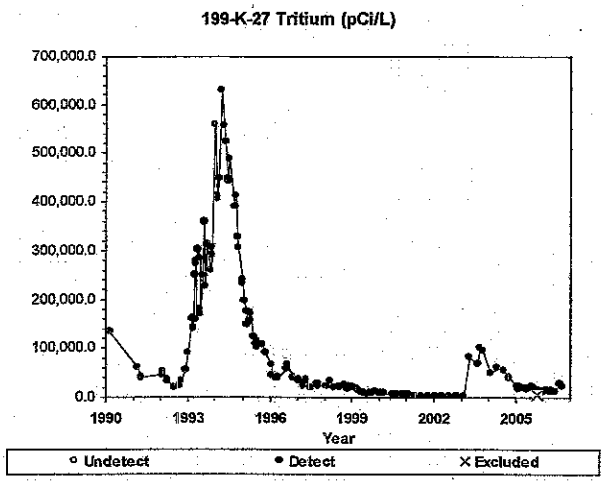
100-KR-4 Groundwater OU - Ron Jackson

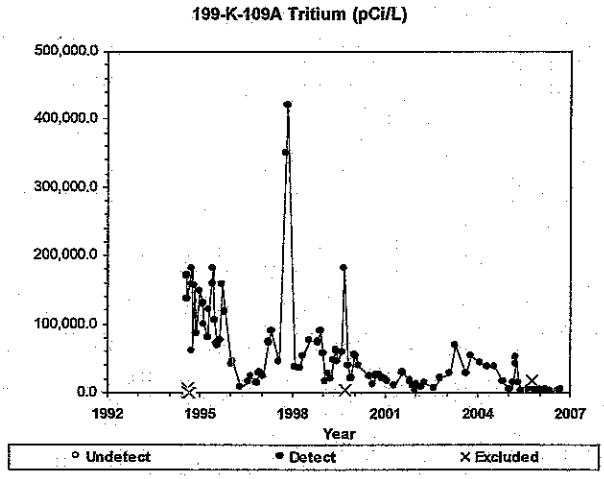
- Remediation Treatment Status
  - For the period of September 2-30, 2006:
    - System operated normally. Some wells temporarily down due to low river stage.
    - Total average flow through the system was approximately 260 gpm.
    - Average influent hexavalent chromium concentration was 0.045 mg/L.
  - KR-4 Expansion
    - Grubbing for the three buildings with start during the week of October 9, 2006.
- KW Groundwater Remediation
  - Drilling is complete. Preliminary short test pump test indicated that the 4 extractions should produce a combined flow of 100 gpm into two injection wells.
  - Treatment building is up and most of conduit/piping to wells has been placed. Acceptance testing planned in late October and November with turnover to operation on December 28, 2006 to conduct OTP.

K-Basins Monitoring-Robert Peterson (update for October 12 UMM)

- Leak Detection Monitoring:
  - Tritium concentrations in groundwater near KE fuel storage basin remain consistent with previous trends and show no conclusive evidence for shielding water loss to the ground. However, the most recent results from 199-K-27 are higher than results for the previous year, and exceed the drinking water standard (August - 26,000 pCi/L; September - 21,000 pCi/L; see attached figures). The recent increases may be related to high water table conditions this summer.
  - Tritium concentrations near KW fuel storage basin remain very low and less than the drinking water standard, with no evidence for shielding water loss to the ground.
  - Tritium concentrations at 199-K-106A, located approximately 100 meters northeast of the KW Basin and downgradient from the former KW Condensate Crib, remain highly elevated, with the most recent value being 648,000 pCi/L (July sample).

100 UMM
Groundwater Operable Unit Status
October 12, 2006





- Monitoring Well Network:
  - Monthly monitoring continues at three wells close to the KE Basin, 199-K-27, 199-K-29, and 199-K-109A. Other wells are sampled quarterly.
  - KE Basin leak detection wells (199-K-27 and 199-K-109A) are likely to remain in service for at least several months while basin sludge removal activities continue.
  - Additional monitoring wells downgradient from the KE reactor will be installed during November 2006 (contact: Chris Wright, Fluor Hanford, Inc.).
- Reporting:
  - The quarterly K-Basins report for April, May, and June 2006 is in preparation, with no significant changes to conditions or interpretations compared to the previous report.

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period September 2-30, 2006:
    - System operated normally.
    - Total average flow through the system was approximately 166 gpm. Some wells down temporarily due to low river stage. Discharge rate cut back to maintain flow.
    - Average influent hexavalent chromium concentration for H Area was approximately tbd (database revision in process) mg/L
    - Average influent hexavalent chromium concentration for D Area was approximately tbd (database revision in process) mg/L.
- Cleanup of chromium in the vicinity of 100-H reactor is progressing well (See Attachments 1). Future meetings with Agencies need to be arranged to discuss O&M options for the reactor area. Ecology is expecting to see Action Items for the "Horn" in the 5-year ROD review.

- **RL request that extraction wells 199-H4-4 and 199-H4-63 are shut down since the hexavalent chromium levels in these wells have been below 20 ppb for at least one year. These wells will return to their original purpose as compliance wells. This phase approach for shutting down extraction wells is consistent with the 100-HR-3/100-KR-4 Remedial Design Report/Remedial Action Work Plan. (See Attachment 1)**

100 UMM
Groundwater Operable Unit Status
October 12, 2006

- DR-5 Treatment Status
  - For the period September 2-30, 2006:
    - Well D5-20 was down from July 29-October 5, 2006 due to a faulty communication line. The line was replaced on October 5, 2006. Well D5-39 was down six days due to faulty backup power. During down time the flow from other wells were increased to maintain 40 gpm or higher
    - . Total average flow was approximately 43 gpm.
    - The average influent hexavalent chromium concentration was 0.720 mg/L.

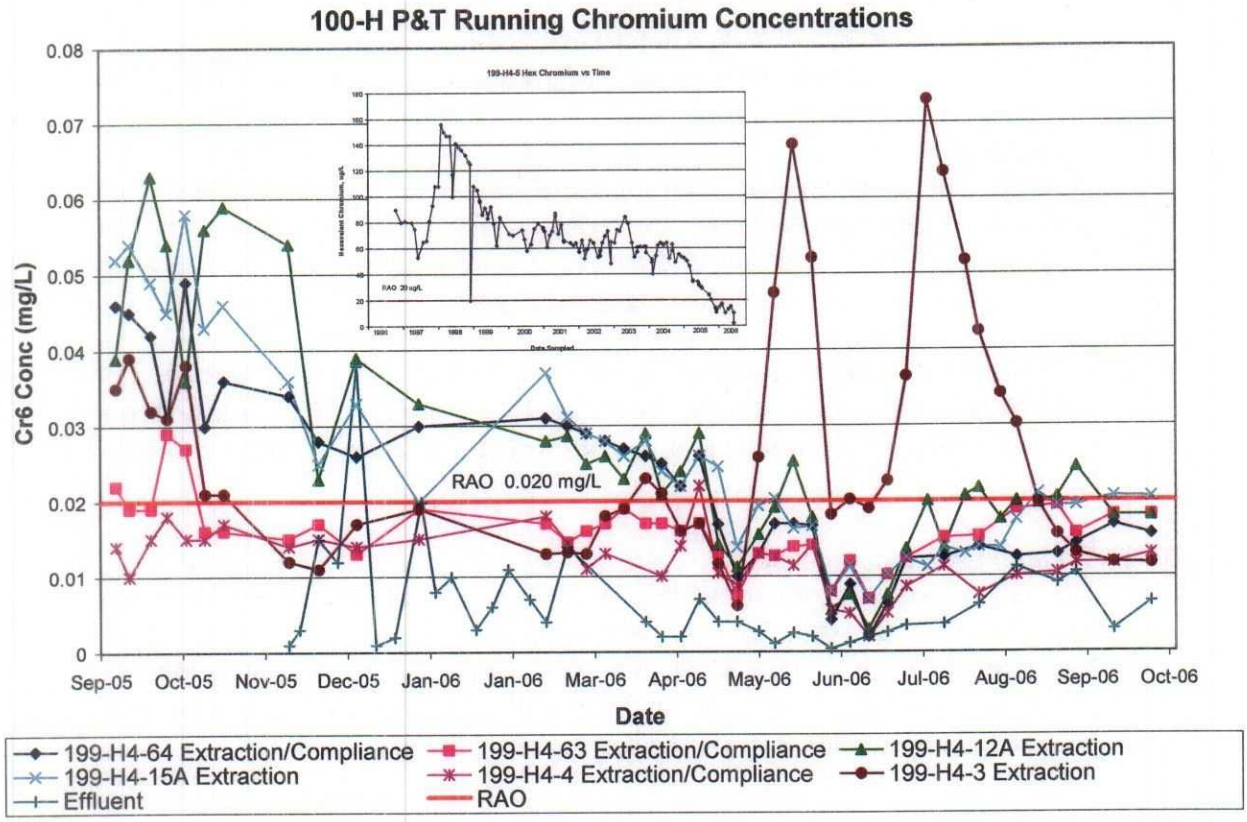
- Summary of ISRM Status
  - Collected and analyzed samples from ISRM barrier wells in September. When compared to samples taken one year earlier, the hexavalent chromium concentrations are generally lower. The overall decrease in concentrations may be caused by the higher than usual river stage experienced this year.

  - **RL request Ecology's approval to reduce quarterly reports to annual reports for the ISRM. The requirement in the RDR/RAWP for quarterly reports was intended to help evaluate ISRM during implementation.** Data is accessible via HEIS.

- EM-22 Technology Developments
  - The RFP for injecting micron-size iron into selected ISRM boreholes was issued September 26. Due data for proposals is October 16.
  - The RFP for testing electrocoagulation was nearly completed in September. It is scheduled to be issued the week of October 9. Treatability test plans for both these projects will be submitted for approval by the regulatory agencies.

100 UMM
Groundwater Operable Unit Status
October 12, 2006

Attachment 1 – 100-H Chromium Trend Plots (Draft)



Attachment 4

(4)

100/300 Areas Unit Managers Meeting for October 12, 2006

300-FF-5 Operable Unit (300 Area, 618-11 Subregion, and 618-10/316-4 Subregion)
100-BC-5 and 100-FR-3 Operable Units

Bob Peterson (373-9020) and Mary Hartman (373-0028)

300-FF-5 OPERABLE UNIT GROUNDWATER

- **Operations and Maintenance Plan Requirements**
  - 300 Area: Uranium results for samples collected from aquifer tubes on September 5 are consistent with previous trends and values expected from monitoring wells. The highest value measured was 195 ug/L at tube site AT-3-4.
  - 300 Area: Well 399-1-2, which is near the recent test pit that extended to groundwater at the 618-2 burial ground excavation, was sampled on August 24 and again on September 14. Plutonium and gamma emitters were not detected; low levels of uranium, gross alpha, and gross beta (i.e., consistent with local background levels), were detected. Additional probing to groundwater within the 618-2 excavation is being planned to further investigate the distribution of contamination.
  - 300 Area: Results from the most recent semi-annual groundwater sampling event, which took place in June, were described at the August unit manager meeting.
  - 618-11 Subregion: (No change from September unit manager meeting) The most recent sampling took place in late June; results remain on trend and as expected. Tritium concentrations at 699-13-3A are at the lowest recorded, i.e., 996,000 pCi/L (compare with peak value of 8,370,000 pCi/L in October 2000).
  - 618-10 Subregion: (No change from September unit manager meeting) The most recent sampling took place in July. Uranium (and gross alpha) are showing a gradual rise at 699-S6-E4A, which is located within the footprint of the 316-4 cribs excavation. Current concentrations are now once again above the respective drinking water standards (initial exceedances previously reported.)
- **Phase III Feasibility Study and Limited Field Investigation**
  - Continued work on interpreting the results from the four characterization boreholes that were drilled in the 300 Area during the period March through May 2006. Additional laboratory analyses are in progress on samples from the cores retrieved from these boreholes (Tier II list in the LFI work plan, DOE/RL-2005-47, Rev. 1).
  - A limited field investigation report is being prepared to describe the results of the drilling program. A draft report is scheduled for delivery to Fluor in December 2006.

100-BC-5 OPERABLE UNIT

- No new analytical results for this operable unit. Next round of groundwater sampling is scheduled for January 2007.

100-FR-3 OPERABLE UNIT

- No new analytical results for this operable unit. Next round of groundwater sampling will occur this month (October 2006).

100/300 Areas Unit Managers Meeting for September 14, 2006 (Note: This meeting was cancelled)

300-FF-5 Operable Unit (300 Area, 618-11 Subregion, and 618-10/316-4 Subregion)
100-BC-5 and 100-FR-3 Operable Units
Aquifer Tube Network

Bob Peterson (373-9020) and Mary Hartman (373-0028)

300-FF-5 OPERABLE UNIT GROUNDWATER

- **Operations and Maintenance Plan Requirements**
  - 300 Area:
    - Results from the most recent semi-annual sampling event, which took place in June, were described at the August unit manager meeting. New sampling activity that has taken place since then includes the aquifer tubes along the 300 Area shoreline on September 5. Results from that event will be available within 45-days.
    - Alisa Huckaby and Beth Rochette visited the tube sampling at the 300 Area and were briefed on the aquifer tube network and sampling procedures (Action Item from previous unit managers meeting).
    - Well 399-1-2, which is adjacent to the recent test pit to groundwater at the 618-2 burial ground excavation, was sampled on August 24, with analyses for various radionuclides including plutonium and uranium. Results are on a rapid turnaround and should be returned during the week of September 11.
  - 618-11 Subregion: (No change from previous unit manager meeting) The most recent sampling took place in late June; results remain on trend and as expected. Tritium concentrations at 699-13-3A are at the lowest recorded, i.e., 996,000 pCi/L (compare with peak value of 8,370,000 pCi/L in October 2000).
  - 618-10 Subregion:
    - Most recent sampling took place in July.
    - Uranium (and gross alpha) are showing a gradual rise at 699-S6-E4A, which is located within the footprint of the 316-4 cribs excavation. Current concentrations are now once again above the respective DWS (initial exceedances previously reported).
    - Tritium and technetium-99 (and gross beta) concentrations are consistent with levels expected from the sitewide plume in this area (200-PO-1).
  - The Columbia River and McNary Pool at the 300 Area remain have returned to seasonal low conditions.

- **Limited Field Investigation, Phase III Feasibility Study**
  - Continued work on interpreting the results for the first sampling of the four characterization boreholes that were drilled in the 300 Area during the period March through May.
    - Concentrations for the completed wells are different than for the samples collected from discreet intervals during drilling, because of what the samples represent concerning aquifer conditions.
    - Volatile organic compound concentrations in samples from the completed wells are consistent with historical data from nearby wells.
  - Re-analysis for trichloroethene of several samples collected during drilling from two of the four characterization boreholes has confirmed the initial results, which were anomalously high. Concentrations for cis-1,2-dichloroethene in samples collected during drilling are

consistent with the conceptual site model for that contaminant. Additional investigation of the occurrence of VOCs at depths below the uppermost hydrologic unit in the central 300 Area is in the planning stage.
  - Additional laboratory analysis of sediment samples collected during drilling at the four characterization holes continues through the remainder of 2006. The Phase II direct-push boring portion of the LFI has been cancelled.
  - Interpretation and discussion of initial results are occurring during periodic project meetings. An LFI report is scheduled for completion in December 2006.

- **300 Area Uranium Treatability Test**
  - A site characterization plan for the field treatability test site has been prepared (PNNL-16008). Test drilling as part of site characterization will take place this fall. Laboratory work on polyphosphate continues.

100-BC-5 OPERABLE UNIT

- No new analytical results for this operable unit. Next round of groundwater sampling is scheduled for January 2007.

100-FR-3 OPERABLE UNIT

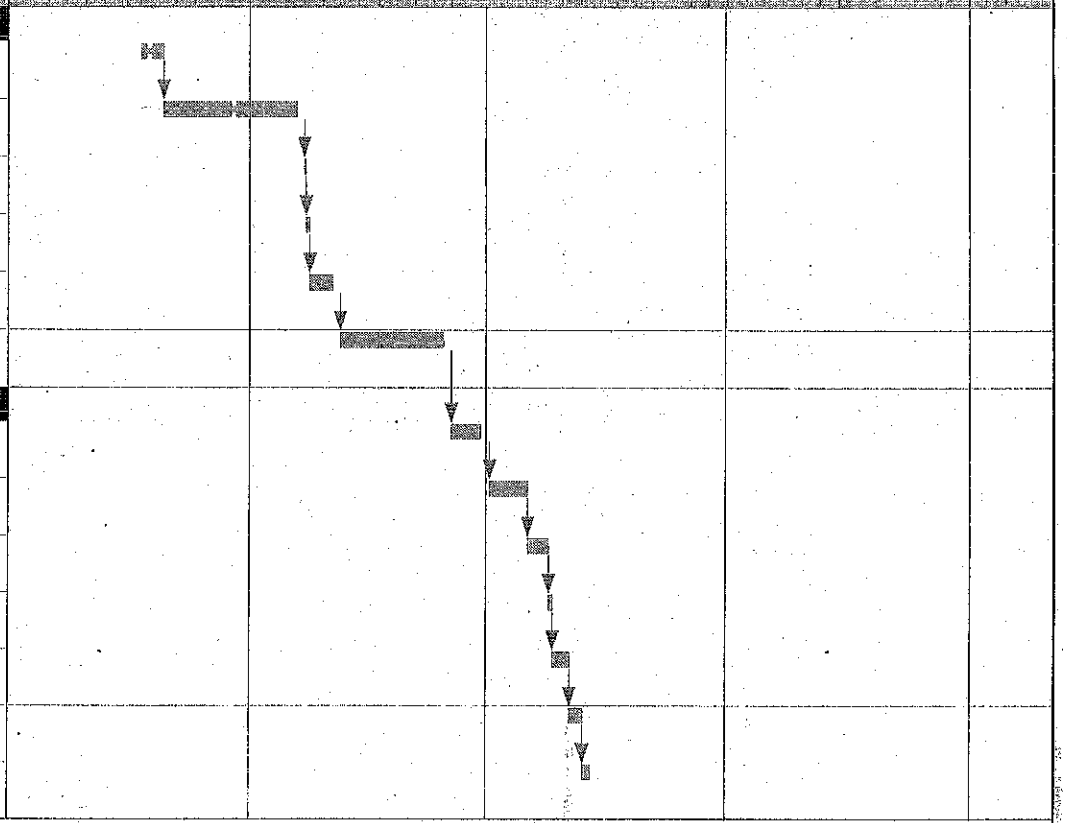
- No new analytical results for this operable unit. Next round of groundwater sampling will occur during October 2006.

RIVER CORRIDOR SHORELINE MONITORING

- Aquifer Tube Network
  - The sampling event for FY2007, which is scheduled to start in October, is currently being planned by Fluor. A meeting with DOE and the regulatory agencies will be scheduled to present the proposed list of sites and analyses for their review, comment, and concurrence (per the aquifer tube Sampling and Analysis Plan, DOE/RL-2000-59).
- Riverbank Springs
  - Sampling will commence in October 2006.

Attachment 5

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Local Material				
1000	Backfill 118-C-1	4	20NOV06*	28NOV06
1100	Backfill 100-B-14	27	29NOV06	18JAN07
1200	Backfill 128-B-3	1	22JAN07	22JAN07
1300	Backfill 118-B-6	1	23JAN07	23JAN07
1400	Backfill 100-C-9	6	24JAN07	01FEB07
1500	Backfill 118-B-1	23	05FEB07	15MAR07
Pit 24 Material				
1610	Backfill 118-C-1	8	19MAR07	29MAR07
1620	Backfill 100-B-14	9	02APR07	16APR07
1630	Backfill 128-B-3	5	17APR07	24APR07
1640	Backfill 118-B-6	1	25APR07	25APR07
1650	Backfill 100-C-9	4	26APR07	02MAY07
1660	Backfill 118-B-1	2	03MAY07	07MAY07
1670	Backfill 116-C-3	3	08MAY07	10MAY07



Start Date	29AUG05
Finish Date	10MAY07
Data Date	29AUG05
Run Date	05OCT06 12:14

Early Bar
Progress Bar
Critical Activity

BKFL

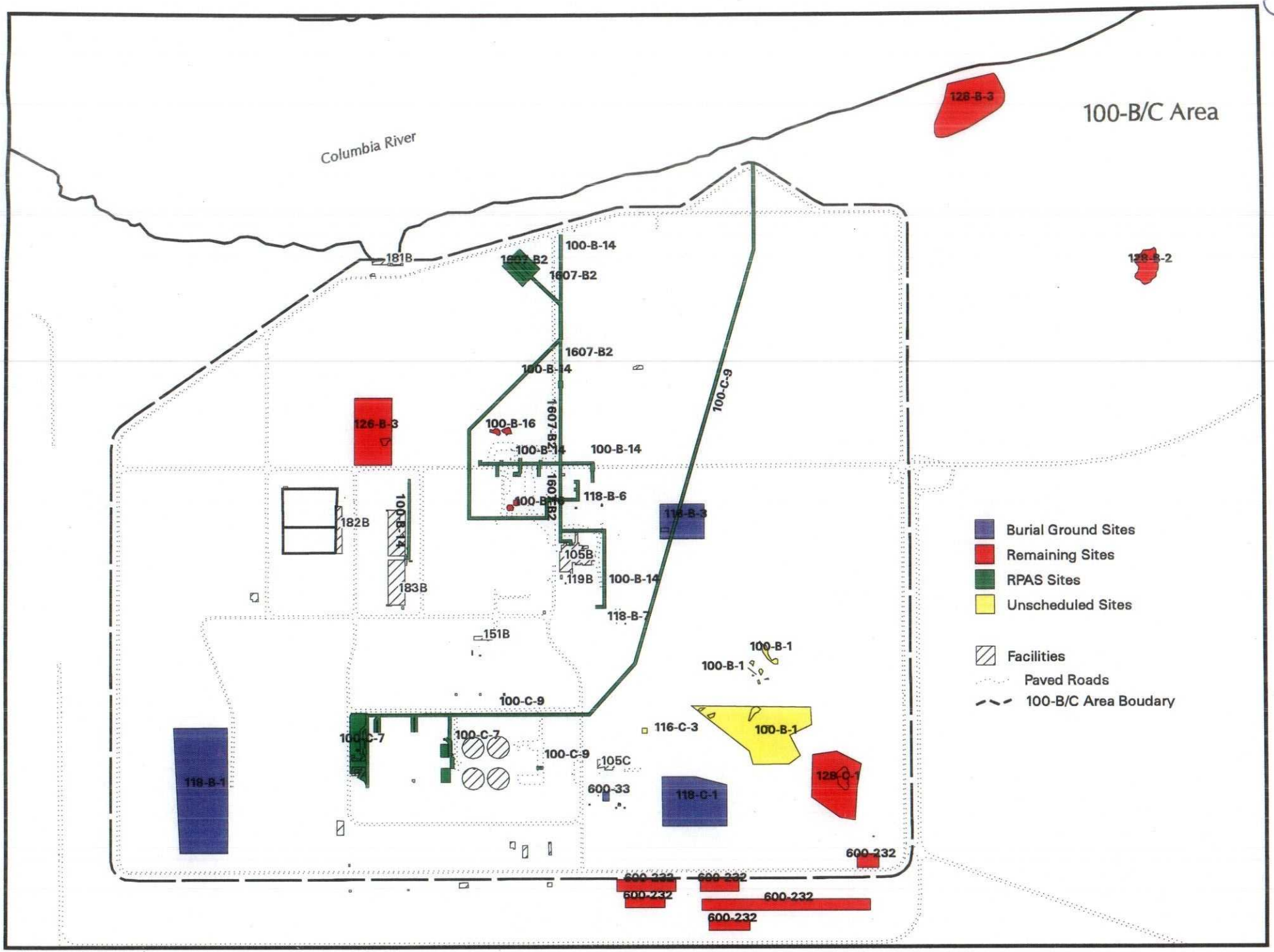
Sheet 1 of 1

BECHTEL HANFORD INC.

FY06/07-REV A DWP SHELL

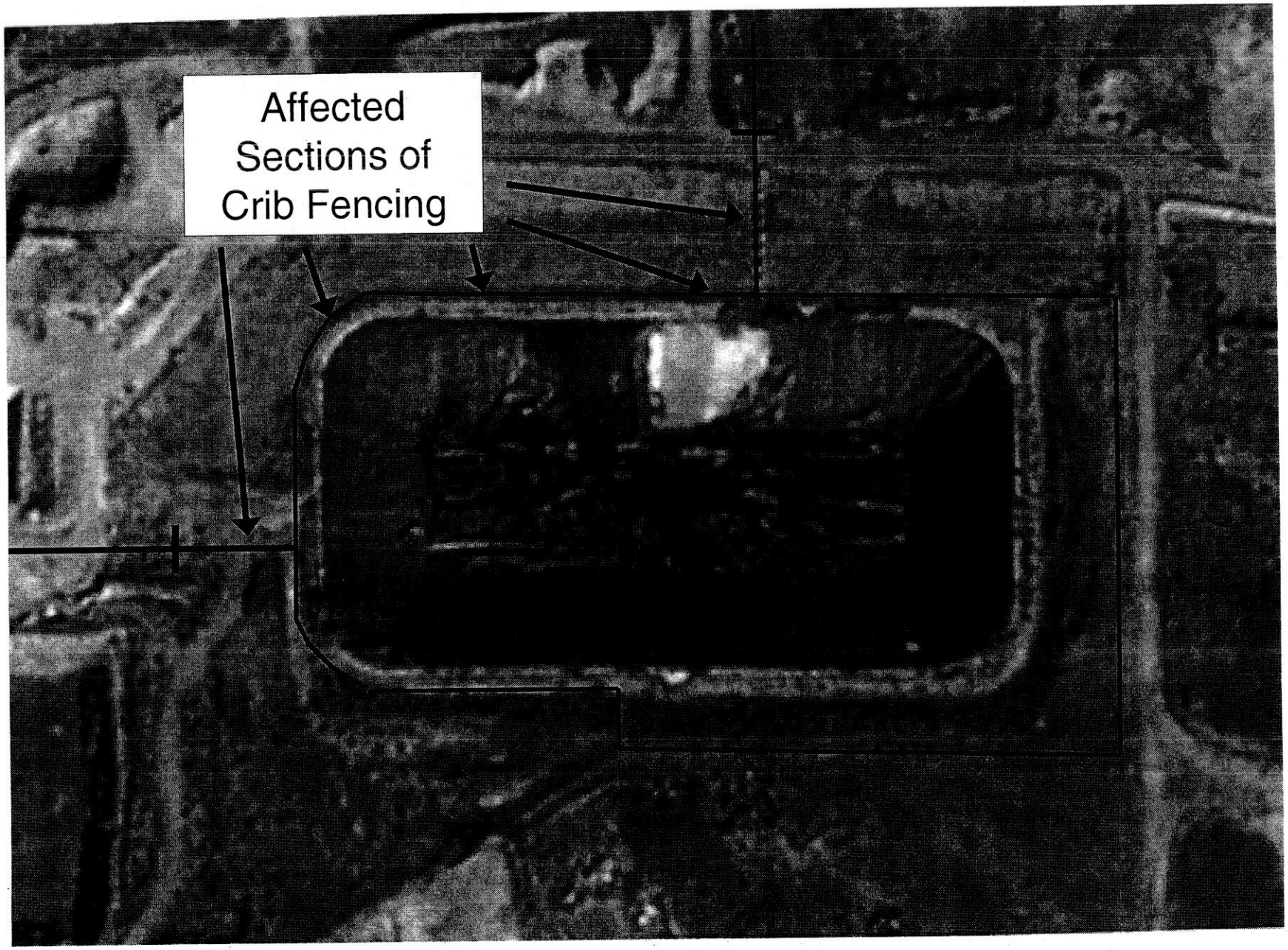
LT-S1 P3 Verification - Codes/Escalated Cost

Attachment 6


100-B/C Area
Columbia River
128-B-3
128-B-2
181B
100-B-14
1607-B2
126-B-3
100-B-16
182B
183B
105B
119B
118-B-6
118-B-3
118-B-7
151B
100-C-9
100-B-1
116-C-3
105C
600-33
118-C-1
128-C-1
118-B-1
600-232
Burial Ground Sites
Remaining Sites
RPAS Sites
Unscheduled Sites
Facilities
Paved Roads
100-B/C Area Boudary

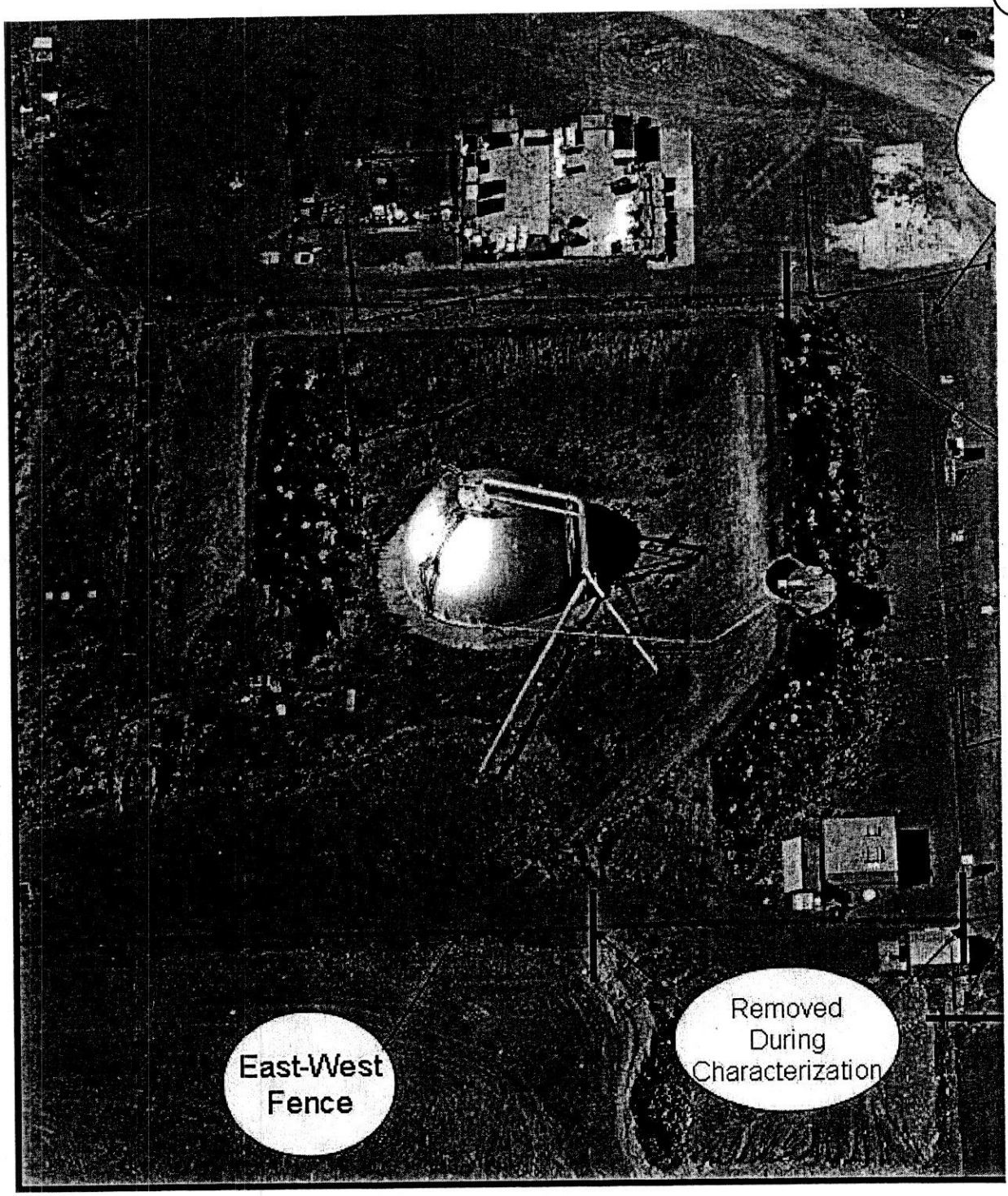
Attachment 7

1312N - Demolition: Affected Crib Fencing



Attachment 8

3



Attachment 9

	116-N-1 Propsosed Changes from 116-N-3 Approved Plan	2005 Approved 116-N-3	Plan
Planting Window	Mid November through December	Mid November through early January	September through November
Seeding Technique		Broadcast seed	Drill seed - Drives cost up as subcontractor will generally build in cost for significant equipment repairs/replacement.
Fertilizer		120 lbs Triple 16 at time of seeding	No fertilizer specified at this time - however clause "if deemed advisable based on other 100 area work Triple 16 at 120 lb/ac"
Seed Mix	Increase Bluebunch wheatgrass to 10 lbs/ac while eliminating Thickspike Wheatgrass, as germination and establishment of Thickspike wheatgreass on other sites has been poor. Add 3 lbs/ac bottlebrush squireltail seed, as use of bottlebrush squireltail straw mulch (with subsequent residual seed within) on other 100 Area waste sites indicates successful germination and survival.	Thickspike Wheatgrass 5lbs/ac Bluebunch Wheatgrass 5lbs/ac Indian ricegrass 5 lbs/ac Prarie Junegrass 5 lbs/ac Sandberg's bluegrass 10 lbs/ac needle and thread 1 lbs/ac rabbitbrush and other Hanford Site forbs as available from hand collections. Purchased from a local seed producer and use of seed in storage previously grown under contract for the ERC.	Revegetation Manual Seeding Rates Indian ricegrass 2 lbs/ac Sandberg's bluegrass 2lbs/ac needle and thread 0.5lbs/ac Hand collected sagebrush, yarrow, balsamroot, pine bluegrass, and snow buckwheat
Ployacrylamide tackifier	15 lbs ac, to facilitate seed germination		
Irrigation	2500 gal/ac at time of seeding plus 2500 gal/ac after the shrubs are planted, if needed	1/5 inch of water per acre (5,000 gal/ac) for seed germination	5 gal of water per sagebrush plant immedietly after installation
Mulch		2 tons/ac grass straw and crimped with serrated disk	2 tons/ac straw
Sagebrush	400 sagebrush plants per acre	~340 sagebrush plants per acre.	775 plants per acre. Poor soil properties will not support this density as this would produce smaller stature shrubs yielding lower quality habitat.
Monitioring for Success		5 years	5 years

Attachment 10

10

Donnelly, Jack W

From: Lobos.Rod@epamail.epa.gov
Sent: Wednesday, October 11, 2006 9:22 AM
To: Donnelly, Jack W; Douglas_C_Chris_Smith@rl.gov
Cc: Einan.David@epamail.epa.gov
Subject: RE: Offsite determination

Jack,

It is OK to recycle the batteries.
We can document it at the UMM tomorrow.

Rod Lobos
Remedial Project Manager
Environmental Protection Agency, Region 10 Hanford Project Office
(509) 376-3749

"Donnelly, Jack W" <jack.donnelly@wch-rcc.com> 10/11/2006 08:33 AM

To: Rod Lobos/R10/USEPA/US@EPA
cc: David Einan/R10/USEPA/US@EPA
Subject: RE: Offsite determination

I meant Good Afternoon Rod.....sorry for that mistake. If you are a bit busy, if you wanted to approved this at the UMM that would be ok.....just hoping to get approval this week so we can schedule the work. Thanks again.

-----Original Message-----
From: Donnelly, Jack W
Sent: Tuesday, October 10, 2006 12:55 PM
To: 'Lobos.Rod@epamail.epa.gov'; Donnelly, Jack W
Cc: Einan.David@epamail.epa.gov
Subject: RE: Offsite determination

Good afternoon Rob:

The batteries go to the following location:

Veolia Environmental Services (formerly Onyx Special Services)
5736 West Jefferson Street
Phoenix, AZ 85043
P: (602) 233-2955
POC Environmental: Greg Newton

This information was obtained directly from Candice Marple of the CCRC....her number is 373-6742. Also, the facility is routinely visited by Ecology and Ecology has approved their management plan. The current management plan was approved by Ecology. Additionally, Jack Boller has visited the facility. However, I am not aware if EPA has

ever done a formal offsite acceptability determination or evaluation, but I do know they are an approved recycling facility that your counterpart agency is well aware of.

Please let me know as we don't like drums hanging around our projects.

Respectfully, Jack Donnelly

-----Original Message-----
From: Lobos.Rod@epamail.epa.gov [mailto:Lobos.Rod@epamail.epa.gov]
Sent: Thursday, October 05, 2006 12:10 PM
To: Donnelly, Jack W
Cc: Einan.David@epamail.epa.gov
Subject: Re: Offsite determination

Jack,
We need two pieces of information.
Where do the batteries go after they are delivered to CCRC?
is CCRC permitted, licensed, inspected or ?

Rod Lobos
Remedial Project Manager
Environmental Protection Agency, Region 10 Hanford Project Office
(509) 376-3749

"Donnelly, Jack W" <jack.donnelly@wch-rcc.com> 10/04/2006 02:44 PM

To: Rod Lobos/R10/USEPA/US@EPA
cc:
Subject: Offsite determination

Good afternoon Rod:

I forgot there was one more item to speak to you about. At the 100-F project, we have a container of alkaline batteries that we need to recycle to the CCRC located on Hanford; same EPA ID number as Hanford.
The point of contact at CCRC is Candice Marple (373-6742). We would like to ship them soon and need an offsite determination IAW the 100 Area RDR/RAWP and to comply with 40 CFR 300.440.

The container is an 8-gallon drum, PIN: 100F-06-8107, 1A2 drum. If this is acceptable, can you please send an email.

Respectfully, Jack Donnelly
430-0461

Attachment 11

Project Baseline Schedule

- **Key Dates for Developing Baseline Schedule**
  - **Mobilization to be complete by 31 December 2006.**
  - **Excavation of 618-7 to begin 2 January, 2007.**
  - **Load out of 618-7 material to begin 15 April, 2007.**
  - **618-13 excavation to begin by 1 November, 2007.**

Attachment 12


Columbia River
Route 4
N
Trailer to be removed and demolished
Staging Pile Area
618-2 & 3 Burial Grounds

Attachment 13

End State and Final Closure
Risk Assessment Status
October 12, 2006

General Status

100/300 Area RCBRA Component

- Spring sampling data summary in progress – Will be issued early fiscal year 2007 with a narrative of field activities; Data will be published and posted on a website January, 2007.
- The next monthly workshop to discuss risk assessment approach with Tri-Parties and stakeholders is October 17 and 18, 2006.

Inter-Areas

- Comments are being resolved on the Draft SAP Addendum issued for concurrent RL, regulator, and stakeholder review on August 1. The review period concluded on September 14, 2006.
- A second comment resolution meeting is scheduled for October 16, 2006.

Columbia River Component

- RL has directed WCH to develop estimates to perform a portion of the Columbia River Component work (completion of the work plan, and a scoping DQO and SAP). WCH will obtain input from the regulators and stakeholders as the estimate is developed over the months of October and November, 2006.

Source and Groundwater Assessment Integration Strategy

- The strategy document will be issued as a Draft B in early November following incorporation of comments from the regulatory agencies in early Nov.

RCC End State and Final Closure Project
Risk Assessment - Document and Involvement Look Ahead
October-06

Task	Document	Activity	Status	Target Start Date	Regulator Review	Target End Date
100 & 300 Area Component	Data Summary for Spring Sampling	Summary of Sampling Activities since Jan 1, 2006	In Progress	1-Jun-06	NA	30-Oct-06
	100 Area and 300 Area Component of the RCBRA	Risk Assessment Report in Development	In Progress	1-Apr-06	1-Jul-07	22-Oct-07
Columbia River Component	Risk Assessment Work Plan, Scoping Study	DOE has Directed WCH to Provide Estimate - RL/WCH will seek Tri-Party and Stakeholder Input	Beginning	1-Oct-06	No review, but seeking input	30-Nov-06
Inter-Areas	Inter Areas SAP Addendum	Resolution of Comments in Progress - Goal to Start Field Sampling in October 2006	TBD	2-Aug-06	Aug 1,2006 - Sept 14, 2006	16-Oct-06
Integration	Source/Groundwater Work Plan Integration	Draft B in Progress	In Progress	3-Oct-05	1-Nov-06	1-Dec-06
Meetings/ Workshops		Project Managers	Planned	26-Oct-06		
		Trustee Call-in/Project Managers	Planned	2-Nov-06		
		Trustee Call-in/Project Managers	Planned	7-Dec-06		
		100 Area and 300 Area Risk Assessment Workshop	Planned	Oct 17-18, 2006	In Richland	
		101 Area and 300 Area Risk Assessment Workshop	Planned	15-Nov-06	Call-in	
		102 Area and 300 Area Risk Assessment Workshop	Planned	14-Dec-06	Call-in, afternoon only	
		103 Area and 300 Area Risk Assessment Workshop	Tentative	16-Jan-06	In Richland	
		104 Area and 300 Area Risk Assessment Workshop	Planned	21-Mar-06	In Richland	

Attachment 14

ACT	TITLE	ES	EF
19202350	DOE Review *Planning for the Transition to Long-Term Stewardship Under the RCCC*	12/12/2006	2/6/2007
19202475	Regulator Review *Planning for the Transition to Long-Term Stewardship Under the RCCC*	3/26/2007	5/15/2007
1D001925	RL/Regulator Review *100-D Area Orphan Sites Evaluation Summary Report*	1/24/2007	3/7/2007

Attachment 15

15

129607

^WCH Document Control

From: Golden, James W
Sent: Monday, September 11, 2006 5:08 AM
To: ^WCH Document Control
Subject: FW: More Trailers at 100N Area

This email documents a regulatory decision. Please provide a Chron #.

Jim
521-0877

From: Bond, Rick (ECY) [mailto:FBON461@ECY.WA.GOV]
Sent: Friday, September 08, 2006 10:03 AM
To: Golden, James W
Cc: Killoy, Steve E; Westover, Kent R
Subject: RE: More Trailers at 100N Area

Jim,
Ecology concurs that if the trailers can not be shown to be free of radioactive contamination, they can be disposed in ERDF in accordance with the 100-N Area Ancillary Facility RAWP.

Rick Bond

Facility Transition Project Manager
Washington State Department of Ecology
3100 Port of Benton Richland, WA99354
(509) 372-7885
e-mail: FBON461@ECY.WA.GOV

-----Original Message-----
From: Golden, James W [mailto:james.golden@wch-rcc.com]
Sent: Thursday, September 07, 2006 6:17 AM
To: Bond, Rick (ECY)
Cc: Killoy, Steve E; Westover, Kent R; Golden, James W
Subject: More Trailers at 100N Area

Rick:
We have more trailers that are most likely destined for the ERDF. MO-013, MO-055, MO-100, MO-390, MO-403, MO-415, MO-425, MO-426, MO-427, MO-740, MO-765, MO-766, MO-827, MO-848, MO-911 and MO-950 all have the potential to contain radioactive material due to biological transport.

As you are aware, the "plug in approach" in the N ancillary RAWP allows us to add scope not previously identified in our CERCLA documentation, following regulator approval. We will perform radiological surveys of the trailer, but if we cannot conclude that the trailer is free of radioactive contamination, then we will dispose of the trailer at the ERDF in accordance with the 100N Area Ancillary Facility RAWP.

Please provide an email concurrence, if you are in agreement with this approach.
Jim

521-0877

From: Griff, Brian C
Sent: Monday, August 28, 2006 12:41 PM
To: Golden, James W
Subject:

Jim,
The following mobile offices: **MO-013, MO-055, MO-100, MO-390, MO-403, MO-415, MO-425, MO-426, MO-427, MO-740, MO-765, MO-766, MO-827, MO-848, MO-911, MO-913, and MO-950** are used primarily as offices for staff. Some of these structures are vacant with others still occupied. The only radioactive contaminant suspected in any of these MO's is solely due to mud dauber nests. Typical contaminants that will be removed from these structures are PCB light ballasts, mercury switches, fluids from HVAC units, batteries from emergency lights, etc. Will you please get CERCLA coverage for these MO's please.

Thanks,

Brian Griff
Phone: (509) 373-0089
Cell: (509) 396-1025
Fax: (509) 373-7719

Attachment 16

(18)

ISS Status
October 11, 2006
100/300 Area Unit Manager Meeting

Regulatory Approval to Discontinue Tracking Water Levels in the Fission Product Trap and C Elevator Pit at N Reactor

In September 1998, "bubbler" level indicators were installed in the N Reactor at two locations. The first was the "C Elevator Pit" and the second was the "Fission Product Trap." From the beginning of Surveillance and Maintenance of this facility after deactivation, the indicated levels started to decrease. Over the next two years, the level decreases were closely monitored and plotted. No evidence of external leakage from either sump/pit was identified. It was concluded that normal evaporation was the cause of the level drops and the variation in rates of decrease (with time) were believed to be related to the time of year and perhaps other environmental factors. (Evaporation is significant on an **annual** basis - approximately *4* to 5 inches for the Fission Product Trap and *2.5* to 3 inches for the C Elevator Pit - with the Spring to Fall period relatively steady and Fall through the Winter with the highest evaporation.)

The levels have continued to be recorded and tracked on a routine basis since 1998. The water levels have now dropped to below "zero" in the Fission Product Trap (i.e., below the location/height of the bubbler) and below 8.5 inches in the C Elevator Pit. Because the Fission Product Trap will undergo D&D in 2007 and the C Elevator Pit in 2008, there is no benefit to adding water to the systems in order to have a recorded level.

Given the record over the past eight years that no leakage is occurring in either the Fission Product Trap or the C Elevator Pit, and that both will be undergoing D&D in the near future, the efforts to record and track the water levels may be discontinued.

Frederick F. Bond
R. Bond, Ecology

C. Smith, DOE-RL
10/11/06

Attachment 17

(17)

ISS Status
September 14, 2006
100/300 Area Unit Manager Meeting

Regulatory Approval to leave the pressurizer tank system and penthouse structure in the safe storage enclosure at the 105-N/109-N Reactor

The 105-N Reactor Facility and 109-N Heat Exchanger Building Action Memorandum noted "the pressurizer tank system and the penthouse structure surrounding the pressurizer" would be removed. However, further evaluation performed in the *Conceptual Design Report for the 105-N/109-N Interim Safe Storage Project*, WCH-93, determined that because of the high levels of radiation associated with the primary coolant loop, no entry will be made into the pressurizer room due to ALARA considerations. Thus, due to the high radiation doses that would be involved in the removal process, the pressurizer tank system and penthouse structure will be left in place and covered by the safe storage enclosure.

The State of Washington Department of Ecology (Ecology) and the United States Department of Energy (DOE-RL) agree with this scope modification.

R. Bond, Ecology
Sept. 6, 2006

C. Smith, DOE-RL
9/10/06

Attachment 18

18

SUMMARY OF WCH 2006 ANNUAL INSTITUTIONAL CONTROLS EVALUATION

- **Evaluation Questions**
  - **Are IC requirements being properly reflected in waste site closeout documents (i.e., Cleanup Verification Packages and Waste Site Reclassification Forms)? (See *2004 Site Wide Institutional Controls Annual Assessment Report for Hanford CERCLA Response Actions*)**
  - **Do subcontractor documents require that signage on new haul roads be maintained during remediation? (See *2004 Site Wide Institutional Controls Annual Assessment Report for Hanford CERCLA Response Actions*)**
  - **Is access control maintained and warning signs posted along access roads for 300 Area waste sites? (See 300-FF-2 Record of Decision)**
- **Evaluation completed in April 2006**
- **Scope and Findings**
  - **Ten recent CVPs and RSVPs were reviewed; appropriate IC language was present in all documents.**
  - **Three subcontractor documents issued after CY 2004 were reviewed; all contained language requiring that signage be installed and maintained.**
  - **A perimeter inspection of access controls at WCH-controlled north areas of the 300 Area main industrial complex was conducted. Warning signs were present at all openings to WCH-controlled access areas; there were no physical barriers preventing access to WCH-controlled road in the northwest portion of the 300 Area main industrial complex.**
- **Actions Taken**
  - **A fence with a locking gate was installed along Apple Street and around the queue in the northwest portion of the 300 Area to provide more positive access control.**